

WHAT IS CLAIMED IS:

1. A rolling bearing structured such that
a plurality of rolling elements are respectively held
between inner and outer rings by a retainer,

5 grease is sealed therein by a seal,

a rotary body provided with said outer ring and a shaft
provided with said inner ring can be connected together by
a clutch mechanism, and,

10 when said rotary body and shaft are connected together
by said clutch mechanism, said rolling bearing can be used
on receiving a rotation load while the relative rotation
between said inner and outer rings is zero,

15 wherein an initial radial clearance between said inner
and outer rings is set such that a bearing effective clearance
when said rolling bearing is incorporated between said rotary
body and said shaft can provide a positive value.

2. A rolling bearing as set forth in Claim 1, wherein
said bearing effective clearance is set at 0.020 mm or more.

20 3. A rolling bearing as set forth in Claim 1, wherein
the depths of grooves formed in said inner and outer rings
are respectively 17% or more of the diameter of said rolling
body.

25 4. A rolling bearing as set forth in Claim 2, wherein

the depths of grooves formed in said inner and outer rings are respectively 17% or more of the diameter of said rolling element.

5 5. A rolling bearing as set forth in Claim 1, wherein an interference of the seal lip of said seal is 60% or more of an axial clearance.

6 6. A rolling bearing as set forth in Claim 2, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

7 7. A rolling bearing as set forth in Claim 3, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

8 8. A rolling bearing as set forth in Claim 4, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

20 9. A rolling bearing as set forth in Claim 1, wherein the dynamic viscosity at 40° C of the base oil of said grease is 80 mm²/s or more.

25 10. A rolling bearing as set forth in Claim 2, wherein the dynamic viscosity at 40° C of the base oil of said grease

is 80 mm²/s or more.

11. A rolling bearing as set forth in Claim 3, wherein
the dynamic viscosity at 40° C of the base oil of said grease
5 is 80 mm²/s or more.

12. A rolling bearing as set forth in Claim 4, wherein
the dynamic viscosity at 40° C of the base oil of said grease
is 80 mm²/s or more.

13. A rolling bearing as set forth in Claim 5, wherein
the dynamic viscosity at 40° C of the base oil of said grease
is 80 mm²/s or more.

14. A rolling bearing as set forth in Claim 6, wherein
the dynamic viscosity at 40° C of the base oil of said grease
is 80 mm²/s or more.

15. A rolling bearing as set forth in Claim 7, wherein
20 the dynamic viscosity at 40° C of the base oil of said grease
is 80 mm²/s or more.

16. A rolling bearing as set forth in Claim 8, wherein
the dynamic viscosity at 40° C of the base oil of said grease
25 is 80 mm²/s or more.